

CLAIMS

1. (Currently Amended) A method of wireless communication employing a terminal, the terminal configured to tune either to a ~~HDR~~ High Data Rate (HDR) carrier or a ~~4xRTT~~ 1x Radio

Transmission Technology (1xRTT) carrier, the method comprising:

- (a) tuning the terminal to a HDR carrier;
- (b) establishing a packet data communication over the HDR carrier using the terminal; and
- (c) periodically tuning the terminal to a 1xRTT carrier for a limited time in order to check for incoming 1xRTT communications.

2. (Currently Amended) The method of claim 1, further comprising:

- (d) establishing a 1xRTT communication over the 1xRTT carrier when an incoming 1xRTT communication is ~~deleted in step (c)~~ detected; and
- (e) tuning the terminal back to the HDR carrier when the 1xRTT communication is terminated.

3. (Currently Amended) The method of claim 2, wherein ~~step (d) further~~ establishing a 1xRTT communication over the 1xRTT carrier comprises:

- (f) sending a 1xRTT packet hand-over request from the terminal to transfer the packet data communication from the HDR carrier to the 1xRTT carrier;
- (g) handing the packet data communication over to the 1xRTT carrier from the HDR carrier; and
- (h) establishing the 1xRTT communication over the 1xRTT carrier, while also maintaining the packet data communication over the 1xRTT carrier.

4. (Currently Amended) The method of claim 3, further comprising:

- (i) tuning the terminal back to the HDR carrier when the 1xRTT communication is terminated;
- (j) sending a 1xRTT packet hand-over request from the terminal to transfer the packet data communication from the 1xRTT carrier to the HDR carrier;
- (k) handing the packet data communication over to the HDR carrier from the 1xRTT carrier.

5. (Original) The method of claim 4, wherein the terminal is configured to optionally establish the 1xRTT communication.

6. (Currently Amended) The method of claim 5, wherein the 1xRTT communication includes at least one of the following:

- (a) a voice communication;
- (b) a SMS communication; and
- (c) a broadcast information communication.

7. (Currently Amended) A method of wireless communication employing a terminal, the terminal configured to tune either a High Data Rate (HDR) carrier or a 1x Radio Transmission Technology (1xRTT) carrier, the method comprising:

- (a) tuning the terminal to a HDR carrier;
- (b) establishing a packet data communication over the HDR carrier using the terminal;
- (c) while the packet data communication is in progress, tuning the terminal to a 1xRTT carrier; and
- (d) establishing 1xRTT communication on the 1xRTT carrier.

8. (Currently Amended) The method of claim 7, further comprising:

- (e) tuning the terminal back to the HDR carrier when the 1xRTT communication is terminated in order to complete the packet data communication.

9. (Currently Amended) The method of claim 7, wherein step (d) further comprises:

- (f) sending a 1xRTT packet hand-over request from the terminal to transfer the packet data communication from the HDR carrier to the 1xRTT carrier;
- (g) handing the packet data communication over to the 1xRTT carrier from the HDR carrier; and
- (h) establishing the 1xRTT communication over the 1xRTT carrier, while also maintaining the packet data communication over the 1xRTT carrier.

10. (Currently Amended) The method of claim 9, further comprising:

- (i) tuning the terminal back to the HDR carrier when the voice communication is terminated;
- (j) sending a 1xRTT packet hand-over request from the terminal to transfer the packet data communication from the 1xRTT carrier to the HDR carrier;
- (k) handing the packet data communication over to the HDR carrier from the 1xRTT carrier.

11. (Currently Amended) The method of claim 10, wherein the 1xRTT communication is at least one of the following:

- (a) a voice communication;
- (b) a SMS communication; and
- (c) a broadcast information communication.

12. (Currently Amended) A method of wireless communication employing a terminal, the terminal configured to tune either to a High Date Rate (HDR) carrier or a 1x Radio Transmission Technology (1xRTT) carrier, the method comprising:

- (a) periodically scanning for a HDR carrier;
- (b) tuning ~~the~~ a receiver to a 1xRTT carrier;
- (c) establishing a packet data communication on the 1xRTT carrier after tuning in ~~step (b)~~ the receiver to the 1xRTT carrier;
- (d) periodically scanning for a HDR carrier once the terminal is tuned to the 1xRTT carrier;
- (e) if a HDR carrier is available, tuning the terminal to the HDR carrier; and
- (f) establishing the packet data communication on the HDR carrier.

13. (Currently Amended) The method of claim 12, wherein the packet data communication on the 1xRTT carrier is terminated prior to ~~step (e)~~ tuning the terminal to the HDR carrier.

14. (Currently Amended) The method of claim 12, wherein ~~step (f)~~ further establishing the packet data communication on the HDR carrier comprises:

- (g) sending a 1xRTT packet hand-over request from the terminal to transfer the packet data communication from the 1xRTT carrier to the ~~second~~ HDR carrier; and
- (h) handing the packet data communication over to the second HDR carrier from the 1xRTT carrier.

15. (Currently Amended) A terminal for wireless communication, comprising:

a transceiver configured to selectively tune to a High Date Rate (HDR) carrier or to a 1x Radio Transmission Technology (1xRTT) carrier; and

a processor configured to tune the transceiver to the HDR carrier for establishing packet data communications and to tune the transceiver to the 1xRTT carrier for establishing 1xRTT communications or packet data communications.

16. (Original) The terminal of claim 15, wherein the processor is further configured to periodically tune the transceiver to the 1xRTT carrier to check for incoming 1xRTT communications while a packet data communication is occurring over the HDR carrier, and wherein the processor is further configured to tune the terminal to the 1xRTT carrier and establish a 1xRTT communication over the 1xRTT carrier when an incoming 1xRTT communication is detected.

17. (Original) The terminal of claim 15, wherein the processor is further configured to tune to a 1xRTT when HDR carriers are unavailable and to periodically scan for HDR carriers until one is available, and wherein the processor is configured to tune to a HDR carrier when one is available.

18. (Original) The terminal of claim 15, wherein the processor is further configured to tune to a 1xRTT carrier, while a packet data communication is taking place over a HDR carrier, and establish a 1xRTT communication over the 1xRTT carrier.

19. (Currently Amended) The terminal of claim 15, wherein the processor is further configured to initiate a 1xRTT packet hand-over request in order to transfer packet data communications from a HDR carrier to a 1xRTT carrier, or to transfer packet data communications from a 1xRTT carrier to a HDR carrier.

20. (Currently Amended) The terminal of claim 15, wherein the 1xRTT communication is at least one of the following:

- (a) a voice communication;
- (b) a SMS communication; and
- (c) a broadcast information communication.

21. (Currently Amended) A wireless communications network, comprising:

- a 1x Radio Transmission Technology (1xRTT) carrier configured to carry 1xRTT communications and packet data communications;
- a High Data Rate (HDR) carrier configured to carry packet data communications; and
- a plurality of terminals configured to tune to the HDR carrier for establishing packet data communications and to tune to the 1xRTT carrier for establishing a 1xRTT communications or packet data communications.

22. (Previously amended) The network of claim 21, wherein each terminal is further configured to initiate a 1xRTT packet hand-over request in order to transfer packet data communications from a HDR carrier to a 1xRTT carrier, or to transfer packet data communications from a 1xRTT carrier to a HDR carrier.

23. (Previously amended) The network of claim 22, wherein each hand-over request will contain information about a target base station controller associated with the 1xRTT or HDR carrier that is the target of the hand-over.

24. (Currently Amended) A method of wireless communication employing a terminal, the terminal configured to tune either to a best-effort carrier or an all-service carrier, the method comprising:

- (a) tuning the terminal to a best-effort carrier;
- (b) establishing a packet data communication over the best-effort carrier using the terminal; and
- (c) periodically tuning the terminal to an all-service carrier for a limited time in order to check for incoming all-service communications.

25. (Currently Amended) The method of claim 24, further comprising:

- (d) establishing an all-service communication over the all-service carrier when an incoming all-service communication is detected in step (c); and
- (e) tuning the terminal back to the best-effort carrier when the all-service communication is terminated.

26. (Currently Amended) The method of claim 25, wherein ~~step (d) further~~ establishing an all-service communication over the all-service carrier comprises:

- (f) sending a packet hand-over request from the terminal to transfer the packet data communication from the best-effort carrier to the all-service carrier;
- (g) handing the packet data communication over to the all-service carrier from the best-effort carrier; and
- (h) establishing the all-service communication over the all-service carrier, while also maintaining the packet data communication over the all-service carrier.

27. (Currently Amended) The method of claim 26, further comprising:

- (i) tuning the terminal back to the best-effort carrier when the all-service communication is terminated;
- (j) sending a packet hand-over request from the terminal to transfer the packet data communication from the all-service carrier to the best-effort carrier;
- (k) handing the packet data communication over to the best-effort carrier from the all-service carrier.

28. (Previously added) The method of claim 27, wherein the terminal is configured to optionally establish the all-service communication.

29. (Currently Amended) The method of claim 24, wherein ~~the~~ an all-service communication includes at least one of the following:

- (a) a voice communication;
- (b) a SMA communication; and
- (c) a broadcast information communication.

30. (Currently Amended) The method of claim 24, wherein the all-service carrier comprises an 1x Radio Transmission Technology (1xRTT) carrier.

31. (Currently Amended) The method of claim 24, wherein the best-effort carrier comprises an High Data Rate (HDR) carrier.

32. (Currently Amended) A method of wireless communication employing a terminal, the terminal configured to tune either to a best-effort carrier or an all-service carrier, the method comprising:

- (a) tuning the terminal to a best-effort carrier;
- (b) establishing a packet data communication over the best-effort carrier using the terminal;
- (c) while the packet data communication is in progress, tuning the terminal to an all-service carrier; and
- (d) establishing all-service communication on the all-service carrier.

33. (Currently Amended) The method of claim 32, further comprising:

- (e) tuning the terminal back to the best-effort carrier when the all-service communication is terminated in order to complete the packet data communication.

34. (Currently Amended) The method of claim 32, wherein ~~step (d) further~~ establishing all-service communication on the all-service carrier comprises:

- (f) sending a packet hand-over request from the terminal to transfer the packet data communication from the best-effort carrier to the all-service carrier;
- (g) handing the packet data communication over to the all-service carrier from the best-effort carrier; and
- (h) establishing the all-service communication over the all-service carrier, while also maintaining the packet data communication over the all-service carrier.

35. (Currently Amended) The method of claim 34, further comprising:

- (i) tuning the terminal back to the best-effort carrier when the all-service communication is terminated;
- (j) sending a packet hand-over request from the terminal to transfer the packet data communication from the all-service carrier to the best-effort carrier;
- (k) handing the packet data communication over to the best-effort carrier from the all-service carrier.

36. (Currently Amended) The method of claim 32, wherein the all-service communication is at least one of the following:

- (a) a voice communication;
- (b) a SMS communication; and
- (c) a broadcast information communication.

37. (Currently Amended) The method of claim 32, wherein the all-service carrier comprises an 1x Radio Transmission Technology (1xRTT) carrier.

38. (Currently Amended) The method of claim 32, wherein the best-effort carrier comprises an High Data Rate (HDR) carrier.

39. (Currently Amended) A method of wireless communication employing a terminal, the terminal configured to tune either to a best-effort carrier or an all-service carrier, the method comprising:

- (a) periodically scanning for a best-effort carrier;
- (b) tuning ~~the~~ a receiver to an all-service carrier;
- (c) establishing a packet data communication on the all-service carrier after tuning in ~~step (b)~~ the receiver to an all-service carrier;
- (d) periodically scanning for a best-effort carrier once the terminal is tuned to the all-service carrier;
- (e) if a best-effort carrier is available, tuning the terminal to the best-effort carrier;
and
- (f) establishing the packet data communication on the best-effort carrier.

40. (Currently Amended) The method of claim 39, wherein the packet data communication on the all-service carrier is terminated prior to ~~step (e)~~ tuning the terminal to the best-effort carrier.

41. (Currently Amended) The method of claim 39, wherein ~~step (f)~~ further establishing the packet data communication on the best-effort carrier comprises:

- (g) sending a packet hand-over request from the terminal to transfer the packet data communication from the all-service carrier to the ~~second~~ best-effort carrier; and
- (h) handing the packet data communication over to the second best-effort carrier from the all-service carrier.

42. (Currently Amended) The method of claim 39, wherein the all-service carrier comprises an 1x Radio Transmission Technology (1xRTT) carrier, and wherein the best-effort carrier comprises an HDR carrier.

43. (Previously added) A terminal for wireless communication, comprising:
- a transceiver configured to selectively tune to a best-effort carrier or to an all-service carrier; and
 - a processor configured to periodically tune the transceiver to the all-service carrier to check for an incoming all-service communication while a packet data communication is occurring over the best-effort carrier and to tune the terminal to the all-service carrier and establish an all-service communication over the all-service carrier when an incoming all-service communication is detected.
44. (Previously added) The terminal of claim 43, wherein the processor is further configured to tune to an all-service carrier when best-effort carriers are unavailable and to periodically scan for best-effort carriers until one is available, and wherein the processor is configured to tune to a best-effort carrier when one is available.
45. (Previously added) The terminal of claim 43, wherein the processor is further configured to tune to an all-service carrier, while a packet data communication is taking place over a best-effort carrier, and establish an all-service communication over the all-service carrier.
46. (Previously added) The terminal of claim 43, wherein the processor is further configured to initiate a packet hand-over request in order to transfer packet data communications from a best-effort carrier to an all-service carrier, or to transfer packet data communications from an all-service carrier to a best-effort carrier.

47. (Currently Amended) The terminal of claim 43, wherein the all-service communication is at least one of the following:

- (a) a voice communication;
- (b) a SMS communication; and
- (c) a broadcast information communication.

48. (Currently Amended) The terminal of claim 43, wherein the all-service carrier comprises an 1x Radio Transmission Technology (1xRTT) carrier.

49. (Currently Amended) The method of claim 43, wherein the best-effort carrier comprises an High Data Rate (HDR) carrier.

50. (Previously added) The terminal of claim 43, wherein the all-service carrier supports real-time and non-real-time services, and wherein the best-effort carrier supports only non-real-time services.

51. (Previously added) The terminal of claim 50, wherein the all-service carrier is optimized for circuit switched services, and wherein the best-effort carrier optimized for best effort packet data services.

52. (Currently Amended) The terminal of claim 51, wherein the control and data channels in the best effort carrier are time multiplexed.

53. (Previously added) A wireless communication network comprising:
- an all-service carrier configured to carry all-service communications and packet data communications;
 - a best-effort carrier configured to carry packet data communications; and
 - a plurality of terminals configured to periodically tune to the all-service carrier to check for an incoming all-service communication while a packet data communication is occurring over the best-effort carrier and to tune to the all-service carrier and establish an all-service communication over the all-service carrier when an incoming all-service communication is detected.
54. (Previously added) The network of claim 53, wherein each terminal is further configured to initiate a packet hand-over request in order to transfer packet data communications from a best-effort carrier to an all-service carrier, or to transfer packet data communications from an all-service carrier to a best effort carrier.
55. (Previously amended) The network of claim 54, wherein each hand-over request will contain information about a target base station controller associated with the all-service or best-effort carrier that is the target of the hand-over.
56. (Previously added) The network of claim 53, wherein the all-service carrier supports real-time and non-real-time services, and wherein the best-effort carrier supports only non-real-time services.
57. (Previously added) The network of claim 56, wherein the all-service carrier is optimized for circuit switched services, and wherein the best-effort carrier is optimized for best effort packet data services.

58. (Currently Amended) The network of claim 57, wherein the control and data channels in the best-effort carrier are time multiplexed.

59. (Currently Amended) The network of claim 53, wherein the all-service carrier is a 1x Radio Transmission Technology (1xRTT) carrier.

60. (Currently Amended) The network of claim 53, wherein the best-effort carrier is a High Data Rate (HDR) carrier.